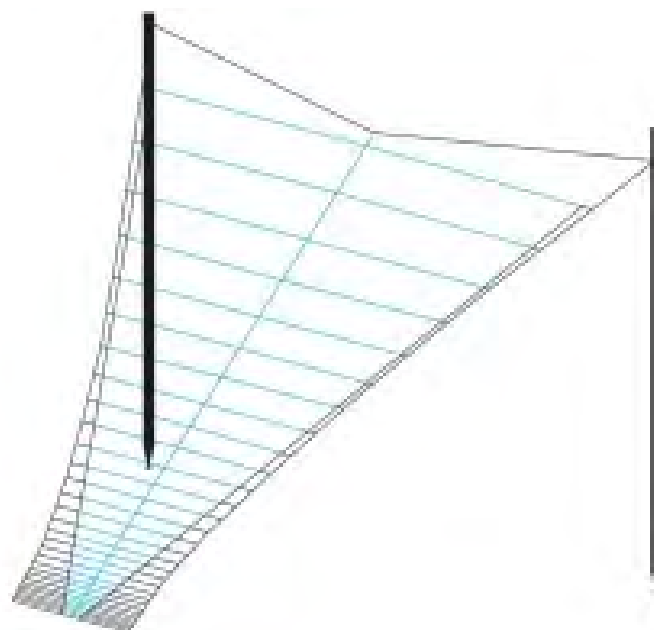


Логопериодическая антенна НЛ410А3



Диапазон 1.5 - 30 МГц

Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81

Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16

Россия (495)268-04-70

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13

Казахстан (772)734-952-31

Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

R&S®HL410A3 LOG-PERIODIC HF ANTENNA

1.5 MHz to 30 MHz

For extremely high sensitivity radiomonitoring over short, medium and global distances



The R&S®HL410A3 log-periodic HF antenna is suitable for the reception of horizontally polarized waves and allows even very weak signals to be detected.

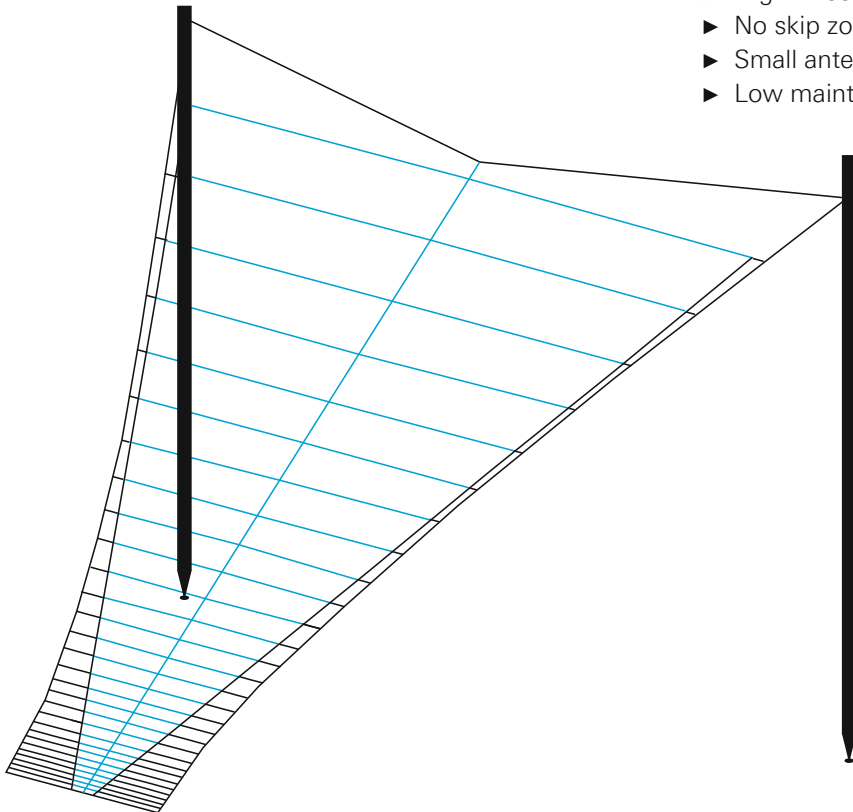
The vertical pattern is shaped taking into account the transmission characteristics in the ionosphere. In conjunction with the extremely wide frequency range from 1.5 MHz to 30 MHz, the antenna allows reception over short, medium and global distances.

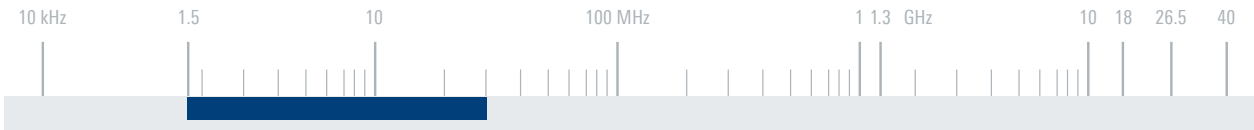
The antenna can be adapted to customer requirements regarding frequency range, vertical pattern, environmental data and size.

The half-power beamwidth of the horizontal radiation pattern of about 70° can be enhanced up to 360° by adding five further antennas. For the reception of vertically polarized waves, the antenna can be combined with the R&S®HL210A3 log-periodic HF antenna.

Key facts

- ▶ Extremely wide frequency range
- ▶ Very high efficiency through dipole structure
- ▶ Reception of even very weak signals
- ▶ High directivity
- ▶ No skip zone
- ▶ Small antenna size for 1.5 MHz to 30 MHz range
- ▶ Low maintenance

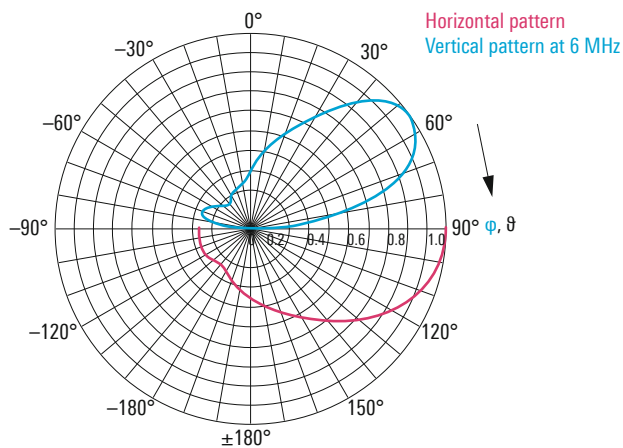




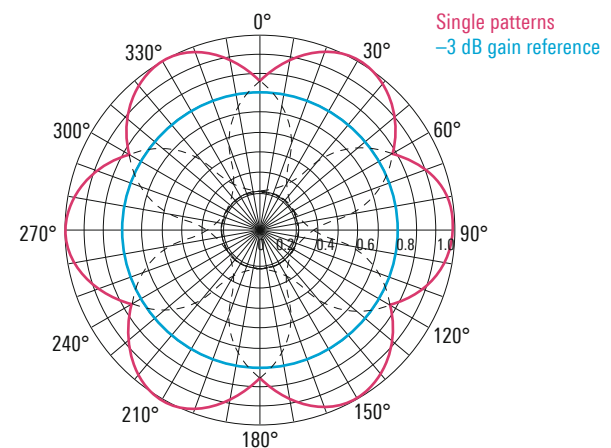
Specifications (exemplary data only)

Frequency range	1.5 MHz to 30 MHz	
Polarization	linear/horizontal	
Input impedance	50 Ω	
VSWR	1.5 MHz	< 6
	2 MHz to 30 MHz	< 2.5; typ. < 2.0
Directivity	at 1.5 MHz	7.5 dBi
	1.6 MHz to 30 MHz	8 dBi to 12 dBi
Efficiency	> 90%	
Connector	N female	
MTBF	≥ 100000 h	
Operating temperature range	-40°C to +70°C	
Max. wind speed	survival	225 km/h
	with ice deposit	135 km/h
	operational	130 km/h
Permissible ice deposit	20 mm radial	on wires with diameter > 7 mm
	2 × diameter	on wires with diameter < 7 mm
Dimensions of antenna array	W × L	approx. 88 m × 94 m (289 ft × 308 ft)
	height of supporting mast	approx. 66 m (217 ft)

Typical vertical and horizontal radiation patterns (only half of the horizontal radiation pattern displayed)



Typical horizontal reception characteristic of a system with six R&S®HL410A3



Ordering information	Type	Order No.
Log-periodic HF antenna	R&S®HL410A3	on request



Архангельск (8182)63-90-72	Ижевск (3412)26-03-58	Магнитогорск (3519)55-03-13	Пермь (342)205-81-47	Сургут (3462)77-98-35
Астана (7172)727-132	Иркутск (395)279-98-46	Москва (495)268-04-70	Ростов-на-Дону (863)308-18-15	Тверь (4822)63-31-35
Астрахань (8512)99-46-04	Казань (843)206-01-48	Мурманск (8152)59-64-93	Рязань (4912)46-61-64	Томск (3822)98-41-53
Барнаул (3852)73-04-60	Калининград (4012)72-03-81	Набережные Челны (8552)20-53-41	Самара (846)206-03-16	Тула (4872)74-02-29
Белгород (4722)40-23-64	Калуга (4842)92-23-67	Нижний Новгород (831)429-08-12	Санкт-Петербург (812)309-46-40	Тюмень (3452)66-21-18
Брянск (4832)59-03-52	Кемерово (3842)65-04-62	Новокузнецк (3843)20-46-81	Саратов (845)249-38-78	Ульяновск (8422)24-23-59
Владивосток (423)249-28-31	Киров (8332)68-02-04	Новосибирск (383)227-86-73	Севастополь (8692)22-31-93	Уфа (347)229-48-12
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Вологда (8172)26-41-59	Красноярск (391)204-63-61	Орел (4862)44-53-42	Смоленск (4812)29-41-54	Челябинск (351)202-03-61
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Екатеринбург (343)384-55-89	Липецк (4742)52-20-81	Пенза (8412)22-31-16	Ставрополь (8652)20-65-13	Ярославль (4852)69-52-93
Иваново (4932)77-34-06				
	Киргизия (996)312-96-26-47	Россия (495)268-04-70	Казахстан (772)734-952-31	

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